

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplie Name
PO038327	MEC002- VU	3	1	Net 30		7075-T6 Sheet 1.25" X 7.000" Order Pre Cut To 50.00": MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft			50	11/28/2017	50	L	\$017118	Stock	12/4/2017	\$ 44.65 / ft	0		\$2,232.50	Metaux Castle
								 Total:	50		50							9	2,232.50	

Plex 12/4/2017 3:55 PM Dart.Plouffe.Sonia

INTERORG TRANSFER PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3444698

		2			
Ship From:		Sold To:	Ship To:	Deliver To:	
A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		AVESTIN INC 2450 DON REID DRIVE OTTAWA, ON K1H 1E1 CA	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	AVESTIN INC 2450 DON REID DRIVE OTTAWA, ON K1H 1E1	
Date Shipped	F.O.B.	Freight Terms	Carrier	5	
/I-NON-77	ORIGIN	Prepaid	APO LOGISTICS FREIGHT	3444698-2	
Shipment Details			Final Destination Branch - TOR	- TOR	
Order No	Line No	Item No	Description		
1112032989	9	9678	6.0000.4.0000.0.5000.AN SPECIFICATIONS: ALL NUMBERS,NO OUTOKUI NORTH AMERICAN MILL	6.0000.4.0000.0.5000.ANG.6061.T6.ALUMINUM.EXT.300.0000 SPECIFICATIONS: ALL MATERIAL TO BE MARKED WITH HEAT NUMBERS,NO OUTOKUMPU MATERIAL ALLOWED NORTH AMERICAN MILLS ONLY WILL BE ACCEPTED	JO HEAT
Purchase Order No		Part Number	Ordered Qty	Invoice Qty	
CM415			1.00 PCS	25.0000 FT	
Details	ALL PAPER ALL MATE	RWORK MUST FOLLOW OF RIAL MUST HAVE IDENTIFY	RDER / CUSTOMER MUST F YING MARKINGS EX:HEAT	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S- MUST BE CLEARLY VISIBLE TO THE EYE	70 THE
	MUST HAV	MUST HAVE PROPER PACKAGING !!!! NORTH AMERICAN MILLS ONLY WILL BE ACCEPTED NO OFFICE ACCEPTED	II L BE ACCEPTED		
	ATT: ALL DI ATT: TRISH	NOMITO MALENT WILL BE DISTRICTS-CLIENT REQUIF H	RES P/SLIPS AND MILL CER	ATT: ALL DISTRICTS-CLIENT REQUIRES P/SLIPS AND MILL CERTS EMAILED AT : AVESTIN®AVESTIN.COM ATT: TRISH	STIN.COM
o .	Mill/Source	Heat Number	Mech Id PCS W	î	Aty(LBS)
121448734 CEN STEI CO.	CENTRAL STEEL & WIRE CO.	2 0 1 6 0 4 9 2 6		300.0000 139.5000	

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to

Date Printed: 22-NOV-2017 01:59:30 PM

CERTIFICATE OF CONFORMANCE INTERORG TRANSFER PACKING SLIP/

Page 2 of 2

any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for detective material are waived unless made in writing to a specification of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

| Date: | Name:

KINE ABALIN

Date Printed: 22-NOV-2017 01:59:30 PM

INTERORG TRANSFER PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3444698

Ship To: Deliver To:	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN CA	CarrierBOL NoXPO LOGISTICS FREIGHT3444698-2	Final Destination Branch - TOR	Description 1.2500.PL.7075.T651.ALUMINUM.US)48.5000.144.5000 CUT 2SIDED TO 7 IN (+.0620/0000 IN) X 50 IN (+.0620/0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	Ordered Qty Invoice Qty 12:00 PCS 12:00 PCS	CUSTOMER MUST RECEIVE AT TARKINGS EX:HEAT #'S	Mech Id PCS Width (IN) Length (IN) Shipped Qty(LBS) 6 271.6998	
Sold To:	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Freight Terms Prepaid		Item No 752114.MO	Part Number	ALL PAPERWORK MUST FOLLOW ORDER / ALL MATERIAL MUST HAVE IDENTIFYING N Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE	Heat Number	
		F.O.B.	tails	Line No		ALL PAPE ALL MATE Email P/s END USE	Mill/Source CONSTELLIUM ROLLED PRODUCTS	CONSTELLIUM
Ship From:	A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA	Date Shipped 22-NOV-17	Shipment Details	Order No 4952481	Purchase Order No	Details	Delivery No. 121448766	121448766

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized

Date Printed: 22-NOV-2017 01:59:30 PM

INTERORG TRANSFER PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance. Test reports are on file subject to examination. All claims for defective material are v for credit.	with the above specifications and has been to waived unless made in writingly to the sastle &	been found to meet the applicable requirer Castle & Co. within 60 days of the shipment آئ	licable requirements for the material, including any specifications forming a part of the description. If the shipment. Material cut to the correct size, or material cut by the customer cannot be returned
Reviewed by Authorized Castle Metals Representative:	A STANDARD OF THE STANDARD OF	Date:	Name:

7000





S A M CASTLE & CO.

14001 ORANGE AVE.
PARAMOUNT CA
90723
US

S O L D T O

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

A M CASTL	E.	110550	653	4075		INCLUS	SION Se	erial:20170703-0110550653 Pg 1of4	ţ			
CUSTOME 419158	R PURCI	HASE OR	DER N	IO. & ITEM		Constell 202980	lium ORDER NO	"Constellium Rolled Products, hereby cer metal shipped under this order has	been			
ALLOY 7075	CLAD	TEMPER T651	1.25	GE 000 in 5 mm	WIDTH 48.500 1,232	100 in	LENGTH 144.50000 in 3,670 mm	 inspected and found in conformance v requirements of the applicable specifical indicated herein. Any warranty is limited shown on Constellium Rolled Products' 	ntions as d to that standard			
ITEM ORD SPEC PLA MILL FINIS CUSTOME AMS 4045	TE, SAW SH ER SPECI		N			General Terms and Conditions of Sale reports are on file, subject to examin Constellium Rolled Products Ravenswo 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 US.	ation." od, LLC					
PART NUM 752114				B/L NUME 83332	BER	DATE 07/05/	SHIPPED 2017	Steve Graf				
WT. SHIPPED 8010.000 LB NO. OF PIECES 000009						CONTRA	ACT NO.	Steve Good - Laboratory Manager				

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A AMS QQ-A-250/12A
AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001556281	890.000	403.697	9387290	01		
1001556281	890.000	403.697	9387290	02		
1001556281	890.000	403.697	9387290	03		
1001556282	890.000	403.697	9387288	01		
1001556282	890.000	403.697	9387288	02		
1001556282	890.000	403.697	9387288	03		
1001556283	890.000	403.697	9387289	01		
1001556283	890.000	403.697	9387289	02		
1001556283	890.000	403.697	9387289	03		

Lot: 9387290

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	(SI)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	78.6	80.2	69.4	70.1	13.0	13.5	



LCK

MATERIAL CERTIFICATION

Central Steel & Wire Company

P.O. Box 5100 - Chicago, IL 60680-5100 1-773-471-3800 1-809-521-8510 (FAX 1-773-471-3962)

REV DATE: APR 18, 2016

Cincinnati, Off 45216-2355 1-800-621-8510 (FAX 1-800-232-9279)

P.O. Box 22015 - Graensboro, NC 27420-2015 1-336-333-2332 1-800-621-8510 (FAX 1-800-237-9279)

SOLD TO:

ATTN: DWILLIAMSON A M CASTLE & CO

P.O. 8ox 12100 = Detroit, MI 48212-0100 1-313-366-5000 (-800-462-1950 (FAX 1-800-292-3678)

P.O. Box E154 - Milwaukee, WI 53201-1154 1-414-481 5000 1-800-521-8031 (FAX 1-800-292 6459)

3050 S HYDRAULIC ST WICHITA KS 67216-2405 DATE(ORG):

APR 15, 2016

CSW ORDER: CUSTOMER PO: 707980 379697

58375

6" X 4" X 1/2" ALUM 6061 T6 ANGLE---25 FT ITEM 001

1394#

SOURCE:

SYM

MILL CERTS ARE ATTACHED

03D6R

SERVICE CENTER METALS SERVICE CENTER METALS 201604926 201600926

LOT#

MILL CERTS ARE ATTACHED

02D6R

WE CERTIFY THAT THE ABOVE MATERIALS FURNISHED BY US WILL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OUTLINED. Vercentiff that the Above materials runningly of 05 with Conform 10 the requirements and prefixed on the Seller's records. Certifications furnished to the buyer by the seller describe the materials and/or services furnished, as indicated in the seller's records. Results of mili tests implied in such certifications are based on standard mili practices and do not indicate each piece has been tested.

> WE HEREBY CERTIFY THAT THE FOREGOING DATA IS A TRUE REPRESENTATION OF THE DATA FURNISHED TO US BY THE PRODUCING MILL

> > RYAN RATHBUN - MANAGER

Ryan Rathbun

METALLURGY & TEST REPORTS

Central Steel & Wire Company



CERTIFIED INSPECTION REPORT AND TEST RESULTS TON MY TON TON TON TON TON THE TON THE

2

5850 Quality Way

Service Center Metals

Can No.	Prince George, VA 23875			ои окрел минаел 257495
art 10	ALANTEST NUMBER	(CIE NUMBER	DATE OF SHIMENT	CERTIFICATION
Central Steel & Wire Company	288880	SUA0238	3/18/2016	ASTM-B308-10 SPO
SMP 70	CUSTOMER PO	を107/7日曜日	SALESPERSON	WORL FIRST A TENN
Central Steel & Wire Company	CHI-64337	6061-T6	David Schroeder	ASTM.9221-14
Quantity Certified 976 lbs	7 pcs custower part number 60568	SUA 6.000x4.000x.500	DX.500	AMS-OOA-200/8 - 19

We hareby certify that the material covered by this report has been inspected in accordance with the most recent certification

CERTIFICATION	
ASTM-B308-10 SPOT STENCIL	
SPECHICATION	
ASTM-B221-14 SPECFCATION	
AMS-QQA-200/8 - 1997	And the second s
SPECIFICATION	
CS&W SPEC V-8 12/20/13	

part of the CS&W SPEC V-8 12/20/13	Offimate Tensile Yield Strength Percent Strength (KSI) (KSI) Elongation	min max min max 43.60 43.60 40.60 40.60 17.35 17.35
revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the methanical properties shown. Homs produced and certified as 6061-76511 also meet the requirements of 6061-76.	IICAI Propertus Lot No.	1 201604926 3/17/16 43

															PO: CHI64337
Chemica	Chemical Composition for Aluminum Alloy 6061	on for A		m Alloy	6061						(2000)				
Cast #	Lot No.	Alloy	اري ا	9)	리	Mn	Mg	ان	Zu	FI	A	5	Total	Melt Source	
2K160218C	2K160218C 201604926	6061	0.61	0.26	0.18	0.07	0.84	0.07	0.02	0.03	97.92	0.05	0.15	United States of America	. 2 5 4"
SCM extrusk	GENERAL STATES OF A MAINTEACH OF THE USA.	ctired is t	the USA.						9	77				SCM extrusions are manufactured in the USA.	//2016

PROV BYZZYTT - LINES

Calvin J. Wiggins, Director of Quality & Technical Services





A M CASTLE & CO.

H I 14001 ORANGE AVE.
PARAMOUNT CA 90723
T US

S O L D T

A M CASTLE 1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

O										0				
AMC	ASTLE	110	5506	53	4075		INC	CLUSIO	N	Ser	rial:20170	703-01	10550653	Pg 2of4
CUST 4191	OMER PU	RCHASE	ORD	ER N	O. & ITEM		Con: 2029		ORDER	NO	"Conste	tal shipp	ped under this	hereby certifies that order has been
ALLC 7075	Y CLAD	TEM T65	IPER 1	1.250	GE 000 in 5 mm	WIDTE 48.500 1,232	000 in	14	NGTH 14.50000 670 mm	in	require indicate shown	ments of d herei	of the applicab n. Any warran stellium Rolled	formance with the ole specifications as ty is limited to that I Products' standard
SPEC	ORDERED PLATE, S FINISH										repor	ts are	on file, subject folled Products 859 Century	
	TOMER SP 4045K	ECIFICA	TION									RAVEN	P.O. BOX (ISWOOD, WV	
PAR 7521	T NUMBER 14				B/L NUME 83332	BER		ATE SH 7/05/201				Si	twe In	1
	SHIPPED .000 LB			0. OF 0009	PIECES	GOVT.	CON	TRACT	NO.			Sto	ve Good - Lat	poratory Manager
Tens	ile - Room	Temper			te (N/MM2)	Yield	(N/MM	2)	E	longation	(%)	Report	
	Direction	Tests	Ν	1in	Max		Min	7	Max	M	lin	Max		
	LT	02	5	42	553	****	478		483	1:	3.0	13.5		-
Cher	nistry (Act			-					_	_				
Core			FE 0.15	CU 1.52	MN 2 0.05		CR 0.21	ZN 5.41	TI 0.03		R .00			
ОТН	IERS-EACH	H: .05 MA	X. O	THER	S TOTAL:	.15 MA	X. AL	REMA	INDER					
						1								
All m	naterial cor	ntained i	n this	lot v	as cast ar	nd manu	ufacti	ured in	the USA					
Lot	: 93872	88												
Tens	ile - Room	Temper	ature	(US)			\ <i>r</i>	(1/01)		_	1	(0/)	Danad	
			260	CONTROL OF THE PARTY OF THE PAR	te (KSI)			(KSI)			longation		Report	
	Direction	Tests		/lin	Max		Min		Max		1in	Max		
	LT	02	8	0.7	81.1		71.2		71.3	1	2.5	13.5		





A M CASTLE & CO.

14001 ORANGE AVE.
PARAMOUNT CA
90723
US

S O L D

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

0 0 Serial:20170703-0110550653 Pg 3of4 INCLUSION A M CASTLE 110550653 4075 Constellium ORDER NO. CUSTOMER PURCHASE ORDER NO. & ITEM CERTIFICATION "Constellium Rolled Products, hereby certifies that 419158 metal shipped under this order has been inspected and found in conformance with the ALLOY CLAD TEMPER GAUGE WIDTH LENGTH requirements of the applicable specifications as 1.25000 in 48.50000 in 144.50000 in 7075 T651 indicated herein. Any warranty is limited to that 31.75 mm 1,232 mm 3,670 mm shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test ITEM ORDERED reports are on file, subject to examination." SPEC PLATE, SAWED Constellium Rolled Products Ravenswood, LLC MILL FINISH 859 Century Road P.O. BOX 68 CUSTOMER SPECIFICATION RAVENSWOOD, WV 26164 USA AMS 4045K B/L NUMBER DATE SHIPPED PART NUMBER 752114 83332 07/05/2017 NO. OF PIECES GOVT, CONTRACT NO. WT. SHIPPED 8010.000 LB 000009 Steve Good - Laboratory Manager Tensile - Room Temperature (SI) Elongation (%) Report Yield (N/MM2) Ultimate (N/MM2) Direction Tests Min Max Min Max Min Max 02 556 559 491 492 12.5 13.5 LT Chemistry (Actual) FE CU MN MG CR ZN TI ZR 2.50 0.21 0.03 0.00 Core 0.05 0.15 1.52 0.05 5.41 OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER All material contained in this lot was cast and manufactured in the USA Lot: 9387289 Tensile - Room Temperature (US) Yield (KSI) Elongation (%) Report Ultimate (KSI) Direction Tests Min Min Max Min Max Max LT 02 80.3 81.1 70.0 71.2 13.5 14.0





A M CASTLE & CO.

H 14001 ORANGE AVE.
P PARAMOUNT CA
90723
US

M CASTLE 110550653

S O L D

Min

13.5

Max

14.0

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

0					0	
M CASTLE	110550653	4075		INCLUS	SION Ser	rial:20170703-0110550653 Pg 4of4
CUSTOMER PURCH 419158	ASE ORDER N	IO. & ITEM		Constell 202980	ium ORDER NO.	. CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the
		I GE 000 in 5 mm	WIDTH 48.500 1,232 i	00 in	LENGTH 144.50000 in 3,670 mm	requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard
ITEM ORDERED SPEC PLATE, SAWE MILL FINISH CUSTOMER SPECII		·				General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68
AMS 4045K PART NUMBER 752114		B/L NUME 83332	BER	DATE 07/05/	SHIPPED	RAVENSWOOD, WV 26164 USA
WT. SHIPPED		PIECES	GOVT.	CONTRA		Steve Gul
8010.000 LB	000009					Steve Good - Laboratory Manager
Tensile - Room Ten		te (N/MM2)	Yield (N/N	MM2) E	longation (%) Report

Max 491

Chemistry (Actual)

Direction

LT

Tests

02

Min

554

SI FE CU MN MG CR ZN TI ZR Core 0.05 0.15 1.52 0.05 2.50 0.21 5.41 0.03 0.00

Max

559

Min

483

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS: AMC CA-15403A R 7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: _ DATE: _	M7075+651.250x7.000 DFC 0 5 2017	ро/ватсн no.: <u>038327/5017</u> [18	
MATERIAL CERT REC'D: _ QUANTITY RECEIVED: _ QUANTITY INSPECTED: _	yes 50"	THICKNESS ORDERED: 1.25 THICKNESS RECEIVED: 1.25 SHEET SIZE ORDERED: ### 1.25 x 7.00	0
QUANTITY REJECTED: _	8	SHEET SIZE RECEIVED: 1.25 x 7.000	

DESCRIPTION		CR eck (N)	COMMENTS
SURFACE DAMAGE	Υ	(N)	
CORRECT FINISH	(7)	N	
CORROSION	Y	8	
CORRECT GRAIN DIRECTION	8	N	
CORRECT MATERIAL PER M-DRAWING	8	N	QQ-A-250/12
CORRECT THICKNESS	8	Ν	
PHOTO REQUIRED	Y	(2)	
CORRECT REF # TO LINK CERT	(8)	N	Heat # 9387290
CORRECT MATERIAL IDENTFICATION	8	N	
CORRECT M# ON THE MATERIAL	(2)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	8	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(2)	

CUT SAMPLE PIECE OF	== .			SS CHECK.	
R	ECORD RES	SULTS BELO	W		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 9	SIGNED OFF BY:
DATE:	DEC 0 5 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

2

B PURCHASE MATERIAL: 7075-T6/T62/T651 AJUMINUM SHEET OR PLATE QQ-A-250/12 DR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209

SPECIFICATION:

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: 8

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

M707516S TTT X W.WWW THK WIDTH

PART NUMBER:

8

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WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TTT BY 4FT BY 10FT FOR SHEET B PREFERRED SIZE:

MELEASED 2017 JUN 19 47 ECN 17-574

SCALE REV. B SHEET 1 OF 1 10,11,08 RF DART AEROSPACE LTD
CP HAWKESBURY, ONTARIO, CANADA
ML DRAWING NO.
LL M7075T6S SHEET 1 OF
WM TITLE
SCAL
DS-M 7075-T6 SHEET/PLATE SPEC NIT 17.05.05 DATE COPYRIGHT © 2010 BY DART AEROSPACE LTD THE DOCAMANT IS PRIVATE AND COMPRISHED AND SUPPLICE OF THE LAMBESS CONCIN. HOT TO BE LIED FOR ANY PARPOSE OF COMMANICATED TO ANY OTHER PERSON. CP RF ВУ ADD: REF TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION 17.05.05 NEW ISSUE DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE DESIGN REV. В V **APPROVED**

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PURCHASE ORDER PO038327

NOV 1 0 2017

Tel (613) 632-5200

Supplier:

MEC002-VU

Metaux Castle P.O. Box 4090 Stn A

Toronto

ON

M5W OE9 Canada

PO No: PO Date:

Due Date:

PO038327

11/10/17

11/28/17

Purchase Order

Revision: **Revision Date:**

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Pymt Terms:

Ground Net 30

Freight Terms:

Special Comments:

		and the second second	12 10 10 10 10 10 10 10 10 10 10 10 10 10	DACTION OF THE	ial Comm	ients.		e watere o	r en niversity.	SECTION OF
Line Item	Part	Rev Description		tems Status	Due Date	Order Quantity	Received Quantity		Unit Price (USD)	Extende Price
1	M7075T6S0.375X6.000				11/28/17	12 ft	0 ft	12 ft	\$25.68/ft	\$308.1
		MATERIAL: 7075- T6/T62								1
		ALUMINUM SHEET AS PER QQ-A-								i I
		250/12 OR AMS-QQ-A- 250/12 OR AMS 4045								
		OR ASTM B209 receive ft								
2	M7075T6S0.375X8.000	- 7075-T6S Sheet .375" Thick Plate X 8" Wide		Firmed	11/28/17	12 ft	O ft	12 ft	\$30.75/ft	\$369.0
		MATERIAL: 7075- T6/T62 ALUMINUM								
		SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR								
		AMS 4045 OR ASTM B209 receive ft								
3	M7075T6S1.250X7.000\			Firmed	11/28/17	50 ft	0 ft	50 ft	\$44.65/ft	\$2,232.50



PURCHASE ORDER PO038327

Tel (613) 632-5200

A CONTRACTOR OF THE PARTY OF TH			T		D	Order	Received	1	Unit	Extende
Line Item	Part	Rev Description	Item Tax	Status	Due Date	Quantity	Quantity	Balance	Price (USD)	Price
		Cut To 50.00" : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft				8)	71) l	₹.	
ne Item Not	te note: cut to size 12 pcs @				= =	40.5	0.4	12.6	¢20 12/ f t	\$241
4	M7075T6S1.250X2.000	- 7075-T6 Sheet 1.250" X 2.000"		Firmed	11/28/17	12 ft	O ft	12 ft	\$20.12/ft	\$241.4
		MATERIAL: 7075- T6/T62								
		ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR								
		AMS 4045 OR ASTM B209 receive ft								4505
5	M7075T6S1.500X1.500	7075-T6S Sheet 1.5" Thick Plate X 1.5" Wide		Firmed	11/28/17	24 ft	O ft	24 ft	\$21.06/ft	\$505.
		MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft								
6	M7075T6S1.750X2.250 -			Firmed	11/28/17	24 ft	0 ft	24 ft	\$28.62/ft	\$686.



PURCHASE ORDER PO038327

Tel (613) 632-5200

Line						Due		Received		Unit	Exte
Item	Part	Rev	Description	Item Tax	Status	Date	Quantity	Quantity	Balance	Price (USD)	Pr
			MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM								
			B209								
			receive ft		l			2 (40 - 6	#7 704666/of	f 627
7	M7075T6S.050	-	7075-T6 Sheet .050		Firmed	11/28/17	48 sf	0 sf	48 ST	\$7.791666/sf	\$37
			MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM BZ09 receive sf								
8	M17-4-B1.500X02.250		17-4 SS Bar 1.50 X2.250		Firmed	11/28/17	/ 12 ft	0 ft	£ 1,2 ft	\$66.00/ft	
			MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH					St.	g(7/	11-2	Ś
			= 100 KSI MIN. ULTIMATE								
			TENSILE STRENGTH = 150 KSI receive ft								
tem Not	e note 1.5" x 2.50" accepta	ble									
9	M7075T6S7.000X2.000		7075-T6S Sheet 7" Thick Plate X 2" Wide		Firmed	11/28/17	24 ft	0 ft	24 ft	\$78.52/ft	\$1,88



PURCHASE ORDER PO038327

Tel (613) 632-5200

Line	Part	Rev	Description	Item Tax	Status	Due Date		Received Quantity		Unit Price (USD)	Extende Price
			MATERIAL:								
			7075-								
			T6/T62								
			ALUMINUM								
			SHEET AS								
			PER QQ-A-								
			250/12 OR								
			AMS-QQ-A-						İ		
1			250/12 OR								11
			AMS 4045								196
			OR ASTM								X
		1	B209								MX
			receive ft				1 1				6
1		1 1		'						Grand Total:	\$7.393.9

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/10/17 9:44 AM dart.lavoie.chantal



PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

Shipment No:3449864

_								Activities	-
	Ship From:		Sold To	Fo:	Ship To:		De	Deliver To:	
	A. M. CASTLE & CO. 2150 ARGENTIA ROAD	& CO.	DART 1270 /	DART AEROSPACE LTD	DART A	DART AEROSPACE LTD		DART AEROSPACE LTD	CE LTD
	MISSISSAUGA, ON L5N	ON LSN	HAWKE	KESBURY, ON K6A 1K7		HAWKESBURY, ON	12. HA	1270 ABERDEEN HAWKESBURY, ON	NO.
	CAN		5		K6A 1K7 CAN	CAN	X6,	K6A 1K7 CA	
!	Date Shipped	F.O.B.		Freight Terms	Carrier	rier		BOL No	*
	30-NOV-17	ORIGIN		Prepaid	MAI	MANITOULIN		3449864-2	2
	Shipment Details	tils			Final De	Final Destination Branch - TOR	nch - TOR		
	Order No	Line No		Item No	Description	tion			
	4952710	5		771698.MO	0.0500.5	H. 7075. T6.AL	UMINUM.BA	0.0500.SH.7075.T6.ALUMINUM.BARE.48.0000.144.0000	14.0000
					- PROT	ECTIVE VINY	L COATING	- PROTECTIVE VINYL COATING SPECIFICATIONS.	ONS:
!					AMS-OC	AMS-QQ-A-250/12			
8	Purchase Order No	er No	Part Number	ımber	Ordered Qty	Qty		Invoice Otv	A
S	38327				1.00 PCS	0		1 00 PCS	
1	. Details	ALL PA	PERWO	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY	RDER / CUS	STOMER MUS	T RECEIVE	AT TIME OF D	FLIVERY
36		ALL MA	TERIAL	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	YING MARK	INGS EX:HE	AT #'S)	
0		Email P/	's and ce	Email P/s and certs to: clavoie@dartaero.com	ro.com				
+		END US	ER: DA	END USER: DART AEROSPACE					
0		END US	END USE: COMM	IMERCIAL AIRCRAFT PARTS	PARTS				
	Delivery No.	Mill/Source	Heat	at Number	Mech Id	PCS	Width (IN)		Length (IN) Shipped Qty(LBS)
	121429664	KAISER ALUMINUM		3 3 4 7					34.6021
			-						

We hereby certify the material covered by this conditions on accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forning a rivat of the description for other subject to examination. All claims for defective material are waived unless material are subject to every solution of the connection of the shument. Material and to the connection of the description of the shument material are to material are waived unless material are waived unless material are shument. Material are to the connection of the shument of the connection of the shument material are to the description of the description of the shument material are to the description of the Name: NOV 3 0 2017 Date:

Date Printed: 30-NOV-2017 03:23:42 PM

)

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4475080

CUSTOMER PO NUMB 429692-1	ER:	WORK PA	VORK PACKAGE: CUSTOMER PART 770200		ART NUMBER:		SHIP RUN/LO/ 104018/16	AD: GOVT C	ONTRACT NUMBER:
1239853-1			DATE: AUG-2017	7075	CLAD: BARE	TEMPER T6	R: PRODU	CT DESCRIPTI	ON:
WEIGHT SHIPPED: 7923 LB	2 PCS		206859		GAUGE: 0.0500	IN (1.2700 M	DIAMETE 48.000		LENGTH: COIL

MHU 2141882: LOT 23342882: 1 pieces; MHU 2141886: LOT 233428B2: 1 pieces;

Certified Specifications

AMS 4045/RevL CMMP 019/RevD

AMS-QQ-A-250/12/RevA CMMP 025/RevV

ASTM B 209/Rev14

Test Code: 1512

Lot: 233428B2

Cast 504

Drop 04

Test Results

Ingot 5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper

T6

Dir / # Tests LT / 2 (Min:Max)

84.0:84.4

(579:582)

Ultimate KSI (MPA) Yield KSI (MPA) Elongation % 13.8:13.9

74.8:74.9

(516:516)

(ASTM E1251)

Chemistry: SI FE CU MN MG CR ZN TI ZR OTHER Actual(wt%) 0.08 0.19 1.5 0.05 0.03 0.01 0.01 2.5 0.20 5.7 TOT 0.03

ALLOY LIMITS

SI FE CU MN MG CR ZN TI V ZR OTHER MAX 7075 MIN(wt%) 0.00 0.00 1.2 0.00 2.1 0.18 5.1 0.00 0.00 0.00 EACH 0.05 0.50 2.0 MAX(wt%) 0.40 0.30 2.9 0.28 6.1 0.20 0.05 0.05 TOT 0.15

Aluminum Remainder

ORDER COMMENTS AMC A97075-152 R 5





Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4475080

CERTIFICATION

Jemennay

CENTIFICATION

(alser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and thereby certifies that all immerial shipped under this order:

Inas been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

All test opiniment and measuring devices are collivated and certified in accordance applicable apecifications. For material thicknesses outside specification limits, mechanical properties are as shown harman and chemical composition meets specifications. Reported clongation values have been measured as disrigation at fracture.

Was meltod in the United States of America or a qualifying country are IDFARS 252.872-1 [all, was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

In a mercury free, within the limits of detection of ASTM E12.5 is C appm).

Is in compliance with RoMS 2. European Union Directive 2C11/65/EU.

Is in compliance with RoMS 2. European Union Directive 2C11/65/EU.

Is in to compliance with European Chemical Agency, Echk. REACH regulations, (EC) No 1907/2006, and Kniser regularly mentions these regulations for updates.

Is tree of Conflict Minerals, as celined in Section 15.2 of the Dedec-Frank Act.

There is tree of Conflict Minerals, as celined in Section 15.2 of the Dedec-Frank Act.

There is tree of Conflict Minerals, as celined in Section 15.2 of the Dedec-Frank Act.

There is tree of Conflict Minerals, as celined in Section 15.2 of the Dedec-Frank Act.

There is the opening requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in Nill, without the written approval of the Kniser. Aluminum laboratory. The recording of talse, ficitious or travolutent statements or entries on the certificate may be punished as a felony under leceral law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2